PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 119122	FOR FURTHER ACTION	See Form PCT/IPEA/416						
International application No. PCT/AU2004/001020	International filing date (day/month/ 30 July 2004	year) Priority date (day/month/year) 1 August 2003						
International Patent Classification (IPC) or	national classification and IPC							
Int. Cl. 7 H04R 17/00, G01S 15/00								
Applicant SONARTECH ATLAS PTY LTD et al								
SONARIECH AILASIII LID Cai								
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.								
2. This REPORT consists of a total of 3	sheets, including this cover sheet.							
3. This report is also accompanied by ANI		*						
a. (sent to the applicant and to the	e International Bureau) a total of sl	neets, as follows:						
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or table related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4. This report contains indications relatin								
X Box No. I Basis of the repo	ort .							
Box No. II Priority								
Box No. III Non-establishme	ent of opinion with regard to novelty,	inventive step and industrial applicability						
Box No. IV Lack of unity of	•							
X Box No. V Reasoned statem citations and exp	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain documer	nts cited							
Box No. VII Certain defects in	n the international application							
Box No. VIII Certain observat	ions on the international application	·						
Date of submission of the demand	Date of com	pletion of the report						
30 March 2005	7 July 2005	·						
Name and mailing address of the IPEA/AU	Authorized Of	Authorized Officer						
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E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929		Telephone No. (02) 6283 2798						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/001020

Box	No. I Basis of the report						
1.	With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.						
	This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:						
	international search (under Rules 12.3 and 23.1 (b))						
	publication of the international application (under Rule 12.4)						
	international preliminary examination (under Rules 55.2 and/or 55.3)						
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):						
	X the international application as originally filed/furnished						
·	the description:						
	pages as originally filed/furnished						
	pages* received by this Authority on with the letter of						
İ	pages* received by this Authority on with the letter of						
	the claims:						
	pages as originally filed/furnished						
	pages* as amended (together with any statement) under Article 19						
	pages* received by this Authority on with the letter of						
	pages* received by this Authority on with the letter of						
	the drawings:						
ŀ	pages as originally filed/furnished						
	pages* received by this Authority on with the letter of pages* received by this Authority on with the letter of						
	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.						
3.	The amendments have resulted in the cancellation of:						
'	the description, pages						
	the claims, Nos.						
ļ.	the drawings, sheets/figs						
1	the sequence listing (specify):						
	any table(s) related to the sequence listing (specify):						
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).						
	the description, pages						
-	the claims, Nos.						
.	the drawings, sheets/figs						
ļ.·	the sequence listing (specify):						
	any table(s) related to the sequence listing (specify):						
	If item 4 applies, some or all of those sheets may be marked "superseded."						
<u> </u>							

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/001020

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicat	oility;
citation	s and explanations supporting such statement	

1.	Statement			
	Novelty (N)	Claims 1-13		YES
•		Claims		NO
	Inventive step (IS)	Claims 1-13	• .	YES
		Claims	. • •	NO
	Industrial applicability (IA)	Claims 1-13		YES
		Claims		NO

2. Citations and explanations (Rule 70.7)

Novelty (N) and Inventive Step (IS) claims 1-13:

D1 US 5373483 A (BURKE) 13 December 1994

The claimed invention discloses a sonar antenna. This equipment is used for underwater echo sounding and uses hydro acoustic transducers to ensonify the water and receive echoes. The sonar antenna is shaped to allow continuous coherent ensonification such that the power in the echo returned from a uniform flat sea floor is substantially constant.

The features of the claimed invention are not found in any single document or in any obvious combination of documents, published before the earliest priority date of the claims. Therefore the claimed invention is considered to be novel and to involve an inventive step.

Industrial Applicability (IA) claims 1-13:

Claims 1-13 relate to a sonar antenna for measuring echoes in an underwater environment and as such considered industrially applicable.